# TOSHIBA PERSONAL COMPUTER

# T100

## It's your private computer

TOSHIBA

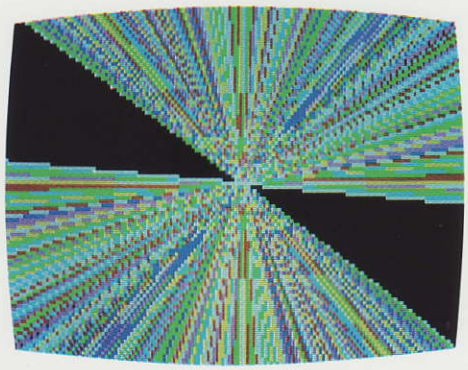
# A full-capability personal computer f and electronic equipment firm.

Toshiba's computer technology covers the range from general-purpose machines to mini computers and small business computers. From this background Toshiba now offers a high-performance personal computer for home and business use: the T100.

**■ Easy System Extension Capability**
For the many uses that suggest themselves to the owner of a personal computer, easy system extension is a must. With the T100, frequently used input and output equipment such as an exclusive display CRT, a dot matrix printer and mini floppy disks can be connected to the CPU (Central Processing Unit) at the same time. These peripheral units are attached by simple cable connections, and there is no need for an additional memory unit or incorporation of interface card.

**■ Flexible Memory Construction**
The T100 is equipped with a 64K byte main memory RAM, a 32K byte ROM for BASIC language and a 16K byte video RAM as standard memory units. In addition, a ROM pack option with maximum 32K byte and a RAM pack option with 32K byte are available. A prime feature of the T100 is the flexibility gained by free use of these standard and optional memory units in combination. The computer can be operated, for example, by a combination of standard ROM and RAM. Or, when an option ROM pack and an option RAM pack are used in combination, all ROMs can be cut off after program loading and the T100 operates as an all-RAM 64K byte computer.

**■ High Graphic Processing Function**
The T100 provides very high resolution graphic displays on its color CRT, which presents an array of 640-dot horizontal lines and 200-dot vertical lines. The CRT can display graphic information in eight colors: black, blue, red, purple, green, light blue, yellow and white. Thus complex or delicate patterns can be presented clearly.



**■ Compact Design for Space Saving**
As a personal computer for daily use, the T100 was designed to minimize the dimensions of every unit. Through its semiconductor and LSI technology, Toshiba realized smaller units that can even be placed in an audio rack — the size that of a compact stereo component.

# from Japan's full-capability electrical

### ■ ROM Pack and RAM Pack

Up to two ROM and RAM packs the size of an audio cassette tape can be installed inside the T100 for wider use of the computer. By installing a ROM pack and cutting off the BASIC of the built-in ROM of the CPU, you can use the languages, OS (operating system) and applications stored in the ROM pack. The RAM pack can be used as a program file and data file. The RAM pack, even if removed from the unit, stores programmed data for one year.

### ■ Most Advanced Technologies in T100 Units

- Liquid Crystal Display (LCD)
  This LCD unit can be used instead of the ordinary CRT display. Its lightweight design means real portability — an essential feature of a true personal computer.

### ■ Popular Languages and Operating System

The T100 offers the CP/M® operating system — the most popular operating system for personal computers. By using any of the high-class languages available on the market that work with CP/M®, you can create your own computer programs with the T100. The T100 also incorporates the up-to-date BASIC language developed by Microsoft Co., along with an extended BASIC, providing the same capabilities as are found in most other personal computers in terms of BASIC languages.

### ■ A Variety of Languages and Operating Systems

The age of one language/one machine has already ended — today is the multi-language age for personal computers. To satisfy your requirements today and tomorrow, the T100 is compatible with a variety of languages and operating systems.

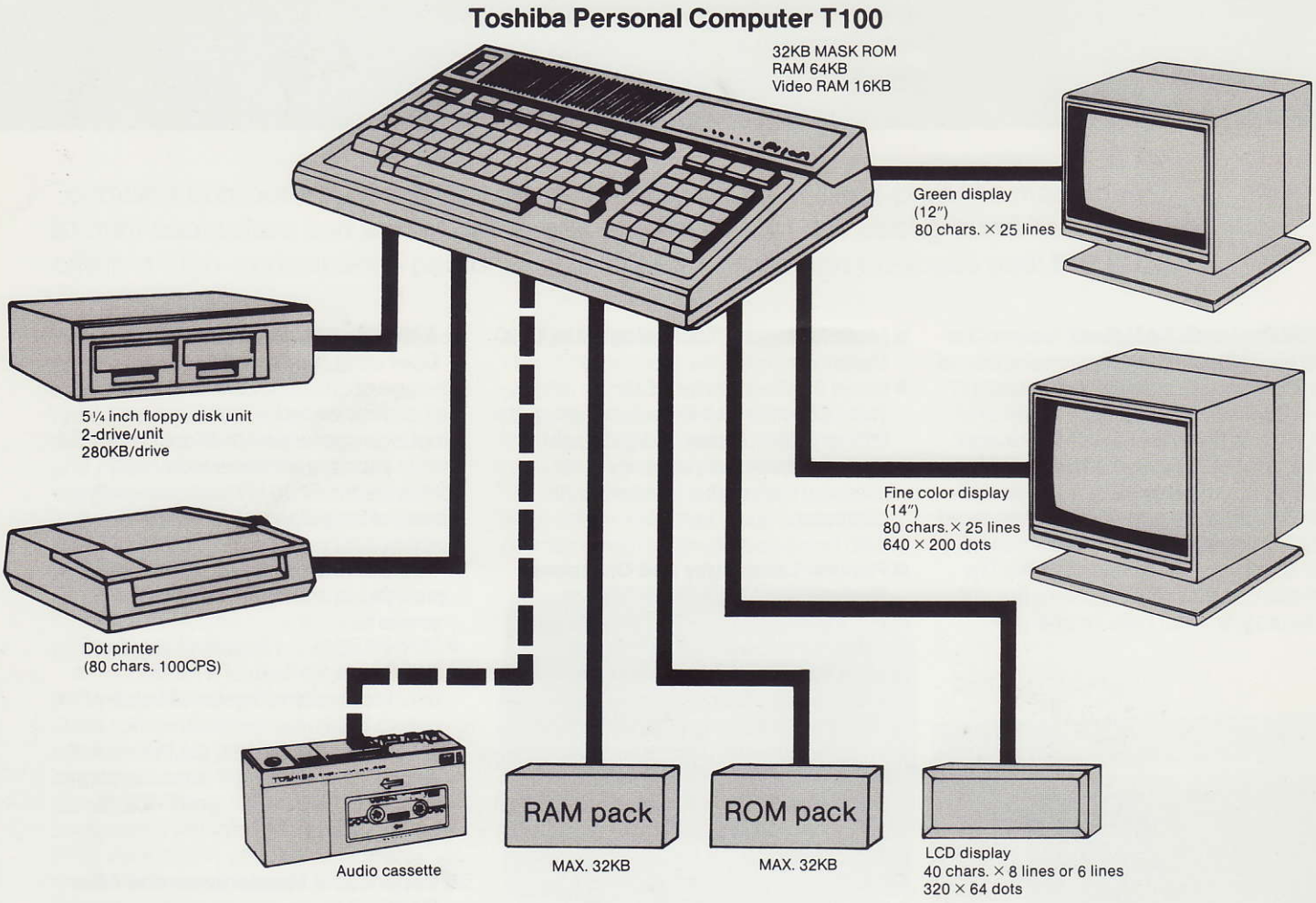
- T-BASIC . . . The BASIC of Microsoft Co., provided in both ROM and RAM versions.
- MINI-PASCAL . . . Subset of standard PASCAL in the form of a ROM pack. A mini floppy disk is not required, and even a beginner can easily work with it.
- CP/M® Compatibles . . . On the market, you can find such high-class languages as FORTRAN, COBOL and PASCAL which work by CP/M®.

### ■ Dependable Maintenance and After Care

Toshiba stands behind the T100 with fully reliable maintenance and after-sales service, ensuring your complete satisfaction with this truly personal computer.

CP/M® is a registered trademark of Digital Research, Inc.

## Schematic Diagram:




## Hardware Specifications:

| | |
|---|---|
| CPU: | Z-80A (4MHz) |
| Memory ROM: | 32KB MASK ROM |
| RAM | 64KB (standard equipment) |
| ROM pack | 8KB — 32KB (optional) |
| RAM pack | 4KB — 32KB (optional) |
| Video RAM | 16KB |
| Keyboard: | |
| Number of keys | 90 |
| Screen configuration: | 80 characters horizontal × 25 lines or 20 lines vertical |
| Letter configuration: | 8 × 8 dots |
| Color display: | 8 colors (black, blue, red, purple, green, light blue, yellow, white) |
| Graphic displays: | 640 × 200 dots (Fine graphic mode)<br>160 × 100 dots (Graphic mode) |
| Dimensions (W × H × D): | 16.5" × 3.9" × 10" (420 × 99.5 × 253mm) |
| Environmental conditions: | Operating temperature 0°C — 35°C (32°F — 95°F)<br>Operating humidity 20% — 80 % |

Design and specifications are subject to change without notice.

TOSHIBA
TOSHIBA CORPORATION TOKYO, JAPAN

**Toshiba Europa GmbH:** Hammer Landstraße 115, 4040 Neuss 1, F.R. Germany Tel: (02101) 1981 Telex: 8517926

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